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MATCH WITH FIG. 1B

MATCH WITH FIG. 1B

FIG. 1B

MATCH WITH FIG. 1A

V C I T L G I T S W T C G S L L A M V H
610 630 650
TGTGAGCCTCATCCTAAGACTGCCCTTTGTGGCCTCGTAAATCAACCACCTTCTCTG
V S L I L R L P F C G P R E I N H F F C
670 690 710
TGAAATCCTGTCTGTCTCAGGCTGGCCTGTGCTGATACCTGGCTCAACCAGGTGTCAT
E I L S V L R L A C A D T W L N Q V V I
730 750 770
CTTTGaAGCCTGCATGTTTCATCCTGGTGGACCACTCTGCCCTGGTGGTCTCCTACTC
F E A C M F I L V G P L C L V L V S Y S
790 810 830
ACACATCCTGGGGGCATCCTGAGGATCCAGTCTGGGAGGGCCGCAGAAAGCCCTTCTC
H I L G G I L R I Q S G E G R R K A F S
850 870 890
CACCTGCTCCTCCACCTCTGCGTAGTGGGACTCTTCTTTGGSAGCGCCATCGTCATGTA
T C S S H L C V V G L F F G S A I V M Y
910 930 950
CATGGCCCCTAAGTCCCGCATCCTGAGGAGCAGCAGAAGTCCCTTTTCCTATTTTACA
M A P K S R H P E E Q Q K V L F L I L Q
970 990 1010
GTTCCCTTTCAACCCCGATGCTTAAACCCCTGATTACAAACCCCTGAGGAATGTAGAGGGT
F L S T P M L K P P D L Q P *
1030 1050 1070
CAAGgtGcCCTCCGAGGAGACCActGTGCAARGRAAGTCAtTCCtAAGGGGTGTGACAT
1090 1110 1130

MATCH WITH FIG. 1C

MATCH WITH FIG. 1B

TTTGAAC TGCCAGCCCCAGTTGCTGCCCTCCTGATGCCCAATATATGCTCAACCCA
1150 1170 1190
GAAAAGTTTACTCCCTTTAACTGTGCTTTACTGACAGAAGGCAAGCCTTCTCCCCTTT
1210 1230 1250
TTTGCAGATAAAATTTTAGATGTGTTGCAATCATTTGGGTTTCTAGGAGATGTGGTTTAT
1270 1290 1310
CAGACAAATTTTCTTTTATTTCACAATTACTTTAATATCTGTAAAAATAAAGAAATTATTT
1330 1350 1370
TAAATCATTTTCCCAGTCCC AAAAGTTAAATACAGGCCACTTACTTCTTTAACCAAATGA
1390 1410 1430
TATAGTTTGGCTCTGTGTCCCCACCCAAATCTCATGTCAAATTGTAATCCCCGCATGTCA
1450 1470 1490
GCGGAGGACCTGGTGGAGGTGATTGGATCATGGGAGGGATTTCCTCCCTTGCTGTTCT
1510 1530 1550
GTTGATAGTGAACGAGTTCTCACGAAATCTGATGGTTTAAAAGTGCAGCACTTCTCCCCTT
1570 1590 1610
TGCTCTCTCTCCTGCTGTGCCATGGTAAGACGTGCCCTTGCTTCCCCCTGGTGCTTCCGC
1630 1650 1670
CATGATGTACCTTTCTCTAGGCCCTCTCCAGCCATGTGGAACGTGAGCCAATTAAACTT
1690 1710
CTTTTCTTTAGAAAAA AAAAAA AAAAAA AAAAAA AAAAAA

FIG. 2A

10 30 50
 TCACTATAGGCGGAATTGGGTACGGGCCCCCCTCGAGGTCGACGGTATCGATAAGCTTG
 70 110
 ATATCGAATTTCGGCACGAGCCGGGCTCGGAGAGGTGACGGAACCGGGGCTGGTAGCATAG
 130 150 170
 TTTGATTGATGATGGAGCCAAACACAGGGGTTGGAGCTGGTACCGGTGAAGCTGAGGCTA
 190 210 230
 AAAAGTTCCCTGGAGTAGACGATGGAGCCATAAAGTGAACCGGAGTCTGTGAATGAAGCC
 250 270 290
 AGGACAGGAGCAGCACCTGGCGATGGTGCCAGGACCGGAAGAGGAGCCAGAGGAGGCT
 310 330 350
 GGAGAAGGAGCCAGAAATTGCTGTGTGGAGCCGCCATAGGAGCCAGAGGGGTGGCTAGA
 370 390 410
 GCCTGAGAAATGCAGAAAGATGCTGGAGCCAGAAAGGGAAGCCTGAGCTGGAGCTGGATTGG
 430 450 470
 TGCTGACGGAAAGGACTGGCCAGAGCCGAAGCTGGCACCCAGGACAGGTGAGCATTTCTG
 490 510 530
 GGGCCACGGTTGAGTTCAACCCACTGACTTTCAGGTGAAGGACTGTGGACCAGCTTGAGAA
 550 570 590
 GAGGCTCACACAGAGTGGGTGTGGGGCATGGGGGCTCGAGCAGTACCCAGAGTAGGTGTG
 610 630 650
 GGTAAGCCGGCCAGGGGTTAACGTGGGGCGTGGATTCAACACAGCTTGAAGCCAGAGC
 670 690 710
 TCGGAGGCCCCGGGTGCTTGGGCCAAATTGAGGAACAGGAGTCAGTCCATCCCGAGGGGTT
 730 750 770
 GTCTCACTACAAATCTTCACACGCCCTTATTATTACCATGGTTGGTGCCACCTGGTTAGC
 790 810 830
 AGCAAGCGAAGGCTGAGGCCAGTAGGGCAGGGGTGTTACTGGGGTTCGAAGAAGCCAG

MATCH WITH FIG. 2B

FIG. 2B

MATCH WITH FIG. 2A

850	CACAGACAGGGTAGGGCCAGGGGTGCGGGCCACGGCCTGGATGAGGCCACATGGGC	870	M R P T W A	890
910	AGGCTGGCTGATGAGATGGTGTGCCCCCTGCTGACACGAGGTGCACCATTCCTTTG	930		950
970	G W L M R W C C P P A D T R C T T F L C	990		1010
1030	CAGCGGGGGCTGCCCCACAGCAAGCTGGCGCACCTGGGCACCATCCAAATACAGCTT	1050		1070
1090	S G R A A P Q Q A G A P G H P K Y S L	1110		1130
1150	GTTTCCCTGGATTGGAAGTGAGAGGTTTGCTTCCCCCTCCATTAAACCACGTGTTGT	1170		1190
1210	F P W I W K V R G L L P P L T T T D V V	1230		1250
1270	GCCAGTGAGACTAACTCTCCGCGCCAATCTGTCCGCGCTGACCTCCTTCGCGGCGTGG	1290		1310
1330	P V R L T L R A N L S A A D L L R G R G	1350		1370
	CCTACCTCTTCCTCATGTTCCACACTGTCCCCGCACAGCCCCGACTTTCACCTGAGGCTG	1390		1430
	L P L P H V P H C P R T A R L S L E G W			
	GTTCCCTGGCAGGGCTTGCTGGACACAAACCTCACTGCGTCGGTGGCCACACTGCTGGC			
	F L R Q G L L D T N L T A S V A T L L A			
	CATCGCGGTGGAGCGGCACCGCAGTGATGGCCGTGCAGCTGCACAGCCGCTGCCCCG			
	I A V E R H R S V M A V Q L H S R L P R			
	TGGCCGCTGATGCTCATGTTGGCGTGTGGTGGCTGCCCTGGGCGCTGGGCTGCT			
	G R V V M L I V G V W V A A L G L G L L			

MATCH WITH FIG. 2C

MATCH WITH FIG. 2B

GCCTGCCCACTCCTGGCACTGCCCTCTGTGCCCTGGACCGCTCCTCACGCATGGCACCCCT
P A H S W H C L C A L D R S S R M A P L 1450 1470 1490
GCTCAGCCGCTCCTATTGGCCGCTCTGGGCTCTGTGAGCCCTGCTTGCTTCTCCTGCTCAT
L S R S Y L A V W A L S S L L V F L L M 1510 1530 1550
GGTGGCTGTGTACACCCGCATTTTCTTCTACGTGCGCGGCGAGTGCAGCGCATGGCAGA
V A V Y T R I F F Y V R R R V Q R M A E 1570 1590 1610
GCATGTCAGTGCCACCCCGCTACCGAGAGACCAAGCTCAGCCTGGTCAAGACTGTTGT
H V S C H P R Y R E T T L S L V K T V V 1630 1650 1670
CATCATCCTGGGGCGTTCTGGTCTGCTGGACACCAGGCCAGGTGGTACTGCTCCTGGA
I I L G A F V V C W T P G Q V L L L D 1690 1710 1730
TGGTTTAGGCTGTGAGTCCTGCAATGTCTCGCGTTAGAAAAGTACTTCCCTACTGTTGGC
G L G C E S C N V L A L E K Y F L L A 1750 1770 1790
CGAGCCAACCTCACTGGTCAATGCTGCTGTGTACTCTTGCCGAGATGCTGAGATGCGCCG
E P T S L V N A A V Y S C R D A E M R R 1810 1830 1850
CACCTTCCGCCGCTTCTCCTGCTGCGCGTGCCTCCGCCAGTCCACCCGCGAGTCTGTCC
T F R R L L L L R V P P V H P R V C P

Match with FIG. 2D

FIG. 2D

MATCH WITH FIG. 2C

1870	1890	1910
ACTATACATCCTCTGCCCAGGAGGTGCCAGACTCGCATCATGCTTCCCGAGAACGGCC		
L Y I L C P G R C Q H S H A S R E R P		
1930	1950	1970
ACCCACTGATGGACTCCACCCTTTAGCTACCTTGAACCTACAGCGGTACGCGGCAAGCAAC		
P T D G L H P L A T L N Y S G T R Q A T		
1990	2010	2030
AAATCCACAGCCCTGATGACTTGTTGGGTGCTCCTGGCTCAACCCAACTCGTGCCGAAT		
N P Q P L M T C G C S W L N P T S C R I		
2050	2070	2090
TCCTGCAGCCCGGGGATCCACTAGTTCTAGAGCGGCCACCAGCGGTGGAGCTCCAGCT		
P A A R G I H *		
2110	2130	2150
TTTGTTCCTTTAGTGAGGGTTAATTTCGAGCTTGGCGGTAATCATGGTCATAGCTGTTC		
2170		
CTGTGTGAAATTGTTATCCGCTCAC		

FIG. 3A

10 CGGACGAGCATAAGAAGACAGAGAGAACTGAGTATCCTCCCAAAGGTGACACTGGAAGC 50
 70 AATGAACACCACAGTAATGCAAGGCTTCAACAGATCTAAGCGGTGCCCAAGACACTCG 110
 M N T T V M Q G F N R S K R C P K D T R
 130 GATAGTACAGCTGGTATTCAGCCCTCTACACAGTGGTTTCTTGACCGAATCCTGCT 170
 I V Q L V F P A L Y T V V F L T G I L L
 190 GAATACTTTGGCTCTGTGGGTGTTTGTTCACATCCCCAGCTCCTCCACCTTCATCATCTA 230
 N T L A L W V F V H I P S S S T F I I Y
 250 CCTCAAAACACTTTGGTGGCCGACTTGATAATGACACTCATGCTTCTTCAAATCCT 290
 L K N T L V A D L I M T L M L P F K I L
 310 CTCTGACTCACACCTGGCACCCCTGGCAGCTCAGAGCTTTGTGTGTCGTTTCTTCGGT 350
 S D S H L A P W Q L R A F V C R F S S V
 370 GATATTTATGAGACCATGTATGTGGGCATCGTGTGTAGGGCTCATAGCCCTTTGACAG 410
 I F Y E T M Y V G I V L L G L I A F D R
 430 ATTCTCAAGATCATCAGACCTTTGAGAAATATTTTCTAAAAAACCTGTTTGGGAAA 470
 F L K I I R P L R N I F L K K P V W G K
 490 AACGGTCTCAATCTTCATCTGGTCTTTTGGTCTTCATCTCCCTGCCAAATATGATCTT 530
 T V S I F I W F F F F I S L P N M I L
 550

MATCH WITH FIG. 3B

FIG. 3B

MATCH WITH FIG. 3A

GAGCAACAAGGAAGCAACACCATCGTCTGTGAAAAAGTGTGCTTCCTTAAAGGGCCTCT
 S N K E A T P S S V K K C A S L K G P L
 610 630 650
 GGGCTGAAATGGCATCAAAATGGTAATAACATATGCCAGTTTATTTCTGGACTGTTTT
 G L K W H Q M V N N I C Q F I F W T V F
 670 690 710
 TATCCTAATGCTTGTGTTTATGTGGTTATTGCAAAAAGTATATGATTCTTATAGAAAG
 I L M L V F Y V V I A K K Y M I L I E S
 730 750 770
 TCCAAAAGTAAGGACAGAAAAACAACAAAAGCTGGAAGGCAAGTATTTGTGTCGTG
 P K V R T E K T T K S W K A K Y L L S W
 790 810 830
 GCTGCTCTTTGTGTGTTTGTCTCCATTTCATTTCGCCAGAGTTCCCATATACTCACAGT
 L S S L C V L L H F I S P E F H I L T V
 850 870 890
 CAAACCAACAATAAGACTGACTGTAGACTGCAAAATCAACTGTTTATGCTAAAGAAACA
 K P T I R L T V D C K I N C L L L K K Q
 910 930 950
 ACTCTCTTTTGGCAGCAACTAACATTTGTATGGATCCCTTAATATACATATCTTATGT
 L S F W Q Q L T F V W I P *
 970 990 1010
 AAAAATTCACAGAAAGCTACCATGTATGCAAGGAGAAAGACCACGATCAAGCCAA
 1030 1050 1070
 GAAATCATAGCAGTCAGACAGACAACATAACCTTAGGCTGACAACCTGTACATAGGGGTA

MATCH WITH FIG. 3C

FIG. 3C

Match with FIG. 3B

1090	1110	1130
ACTTCTATTATTGATGAGACTTCCGTTAGATAATGTGGAAATCCAATTTAACCAAGAAAA		
1150	1170	1190
AAAGATTGGGGCAAATGCTCTCTTACATTTTTATTATCCCTGGGTACAGAAAAAGATTATAT		
1210	1230	1250
AAAATTTAAATCCACATAGATCTATTTCATAAGCTGAATGAACCATTTACTAAGAGAATGCA		
1270	1290	1310
ACAGGATACAAATGGCCACTAGAGGTCATTATTCTTTCTTTCTTTCTTTCTTTCTTTT		
1330	1350	1370
AATTCAAGAGCATTTCACCTTTAACATTTTGGAAAGACTAAGGAGAAACGTATATCCCT		
1390	1410	1430
ACAAACCTCCCCCTCCAAACACCTTCTTACATCTTTTCCACAATTCACATAACACTACTG		
1450	1470	
CTTTTGTGCCCCCTTAAATGTAGATTGTGGCTG		

FIG. 4A

10 TTTTGGGTATTTCTGAGAAAAGGAAATATTTTATAAAACCATCCAAAGATCCAGATAATT 50
 70 TGCAAAATAAATTGGAGGTATAGAGGTTATAATCTGAATCCCAAGGAGACTGCAGCTGA 110
 130 TGAAAGTGCTTCCAAACTGAAATTTGGACGTGCCCTTTACGATGGTAAGCGTTAACAGCTC 170
 190 CCACTGCTTCTATAATGACTCCTTTAAGTACACTTTGTATGGTGTCATGTTTCAGCATGGT 230
 250 H C F Y N D S F K Y T L Y G C M F S M V 290
 310 GTTTGTGCTTGGGTTAATAATCCAATTGTGTGCCATATACATTTTCATCTGCGTCCTCAA 350
 370 F V L G L I S N C V A I Y I F I C V L K 410
 430 AGTCCGAAATGAACTACAACTTACATGATTAACTTGGCAATGTCAGACTTGCCTTTTGT 470
 490 V R N E T T T Y M I N L A M S D L L F V 530
 550 TTTTACTTTACCCCTTCAGGATTTTCTACTTCACAACACGGAATTGGCCATTTGGAGATT 590
 610 F T L P F R I F Y F T T R N W P F G D L 650
 670 ACTTTGTAAGATTTCTGTGATGCTGTTTATACCAACATGTACGGAAGCATTTCTGTCTT 710
 730 L C K I S V M L F Y T N M Y G S I L F L 750
 770 AACCTGTATTAGTGTAGATCGATTCTCTGGCAATTGTCTACCCATTAAAGTCAAAGACTCT 810
 830 T C I S V D R F L A I V Y P F K S K T L

MATCH WITH FIG. 4B

FIG. 4B

MATCH WITH FIG. 4A

550 AAGAACCAAGAAATGCAAGATTGTTTGCACTGGCGTGGTTAACTGTGATCGGAGG 570 590
 R T K R N A K I V C T G V W L T V I G G
 610 630 650
 AAGTGCACCCGCGTTTGTTCAGTCTACCCACTCTCAGGTAACAATGCCCTCAGAAGC
 S A P A V F V Q S T H S Q G N N A S E A
 670 690 710
 CTGCTTTGAAAAATTTCCAGAAGCCACATGGAAAAACATATCTCTCAAGGATTGTAATTT
 C F E N F P E A T W K T Y L S R I V I F
 730 750 770
 CATCGAAATAGTGGGATTTTATTCCTCTAATTTTAAATGTAACCTGTTCTAGTATGGT
 I E I V G F F I P L I L N V T C S S M V
 790 810 830
 GCTAAAAACTTTAACCAACCTGTTACATTAAAGTAGAAGCAAAATAAACAACTAAGGT
 L K T L T K P V T L S R S K I N K T K V
 850 870 890
 TTTAAAAATGATTTTGTACATTGATCATATCTGTTCTGTTTGTCTTCTTACAATAT
 L K M I F V H L I I F C F C F V P Y N I
 910 930 950
 CAATCTTATTTATATCTCTTGTGAGAACACAAACATTTGTTAATTGCTCAGTAGTGGC
 N L I L Y S L V R T Q T F V N C S V V A

MATCH WITH FIG. 4C

FIG. 4C

Match with FIG. 4B

970	990	1010
AGCAGTAAGGACAAATGTACCCAATCACTCTCTGTATTGCTGTTCCAACTGTTGTTTGA		
A V R T M Y P I T L C I A V S N C C F D		
1030	1050	1070
CCCTATAGTTTACTACTTTACATCGGACACAAATTCAGAAATTCATAAATAAATAAATACTG		
P I V Y Y F T S D T I Q N S I K M K N W		
1090	1110	1130
GTCTGTCAGGAGAAGTGACTTCAGATTCTCTGAAGTTCATGGTGCAGAGAAATTTATTCA		
S V R R S D F R F S E V H G A E N F I Q		
1150	1170	1190
GCATAACCTACAGACCCTTAAAAAGTAAGATATTGACAAATGAATCTGCTGCCCTGAAATAA		
H N L Q T L K S K I F D N E S A A *		
1210	1230	1250
AACCATTAGGACTCACTGGGACAGAACTTTCAAGTTCCTTCAACTGTGAAAGTGTCCTTT		
1270	1290	
TTGGACAACATATTTTTCCACCTCCAAAGAAATTAACACA		

FIG. 6A

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1 MRPTWAGWLM.RWCCPPADTRCTTFL..CSGRAAPQQAGAPGHHPKYSLF 47
  |||..... :: : . :: :: |...
1 MGPTSVPLVKAHRSSVDYVNYDIIVRHYNVTGKLNISADKENSIKLTSV 50

48 PWIW.....KVRGLLPPLTTDVPVRLTLRANLSAADLLRGRGLPL 89
  :: ||. |... :: :: ||. ||| | ::
51 VFILICCFIILENIFVLLTIWKTCKFHPRPMYFIGNLALSDLLAGVAYTA 100

90 PHVPHCPRTARLSLEGWFLRQGLLDTNLTASVATLLAIAVERHRSVMAVQ 139
  : : | :|. .. ||| : : .. ||| . ||| : ||. :: :
101 NLLLSGATTYKLTTPAQWFLREGSMFVALSASFSLLAIAIERVITMLKMK 150

140 LHSRLPRGRVVMLIVGVWVAALGLGLLPAHSHWHCLCALDRSSRMAPLLSR 189
  ||. . | :: | : || . | | | : | : || :: | : ||. :
151 LHNGSNFRFLLLISACWVISLILGGLPIMGWNCISALSSCSTVLPVYHK 200

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MATCH WITH FIG. 6B

MATCH WITH FIG. 5A

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190 SYLAWALSSLLVFLLMVAVYTRIFFYVRRRVQMA..EHVSCHPRYRET 237
| : . . | :: | : | : || : . || | : | : . :: | . | . |
201 HYILFCTTVFTLLLSSIVILYCRIYSLVTRSRLTFRKNISKARSSE. 249

238 TLSLVKTVIILGAFVVCWTPGVLLLD.GLGESC NVLALEKYFLLA 286
. : | : || : | : | : | : | : | : | : | : | : | : | : | : |
250 NVALLKTVII VLSVFIA CWAPLFILLLLDV GCKVKTC DILFRAEYFLVLA 299

287 EPTSLVNAAVYSCRDAEMRRRTFRLLLRVP PPVHPRVCPLYILCPGR CQ 336
. | . | : : | . : |||| . | | | : : : : | .
300 VLNSGTNPIIYTLTNKEMRRRAFIR.....IMSCCKCP 331

337 HSHHASRERPPTDGLHPLATLNYSCTR.....QATNPQPLMT CGC 376
: .. } :: : . | . : | : : : | : : : : | : : : | : : |
3332 SGDSAGKFKRPI....IAGMEFSRSKSDNSSHPQKDEGNPETIMSSG. 375

3377 SWLNPTS 383
: | . . |
3376 .NVNSSS 381

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[illegible]

6 SSHCFYNDSFKYTLYGCMFSMVFLGVISNCVAIYIFICVLKVRNETTTYMINLAMSDDL 65
SS+C DSFKYTLYGC+FSMVFLG+I+NCVAIYIF LKVRNETTTYM+NLA+SDLL

3 SSNCSTEDSEFKYTLYGCVFSMVFLGLIANCVAIYIFFTTLKVRNETTTYMLNLAISDLL 62

66 FVFTLPFRIFYFTTRNWPFGDLLCKISVMLFYTNMYGSILFLTCTCISVDRFLAIVYPFKSK 125
FVFTLPFRI+YF RNWPFGD+LCKISV LFYTNMYGSILFLTCTCISVDRFLAIV+PF+SK
63 FVFTLPFRIYFVRNWPFGDVLCKISVTLFYTNMYGSILFLTCTCISVDRFLAIVHPFRSK 122

126 TLRTKRNAKIVCTGVWLTVIGGSAPAVFVQSTHSQGNNAEACFFENFPEATWKTYLSRIV 185
TLRTKRNA+IVC VW+TV+ GS PA F QST+ Q N CFENFPE+TWKTYLSRIV
123 TLRTKRNARIVCVAVWITVLAGSTPASFQSTNRQNNTEQRTCFENFPESTWKTYLSRIV 182

186 IFIEIVGFFIPLILNVTCSSMVLKTLTKPVTLSRSKINKTKVLKMI FVHLIIFCFCFVPY 245
IFIEIVGFFIPLILNVTCSS+MVL+TL KP+TL SR+K++K KVLKMI FVHL+IFCFCFVPY
183 IFIEIVGFFIPLILNVTCSTMVLR TLNKP LTL SRNKL SKKKVLKMI FVHLVIFCFCFVPY 242

246 NINLILYSLVRTQTFFVNCVVAVRMTYPITLCAVSNCCFDPVYYFTSDTNSEFNKNE 305
NI LILYSL+RTQT++NCVW AVRMTYP+TLCAVSNCCFDPVYYFTSDTNSE +K +
243 NITLILYSLMRQTWINC SVTAVRMTYPVTLCIAVSNCCFDPVYYFTSDTNSELDDKKQ 302

306 KL 307

+

303 QV 304

861